VAN WATERS & RODGERS
TXD042201001
REPORTS - 06/01/04

412-04-0014
#37

9078611

FLUOR DANIEL ARCS TEAM

Members: Fluor Daniel, Inc.
I.T. Corporation
PEI Associates, Inc.
Life Systems, Inc.

Program Office:
12790 Merit Drive
Suite 200, LB 169
Dallas, TX 75251
Tel (214) 450-4100
Fax (214) 450-4101

August 31, 1994

FDI/ARCS # 2959

U.S. Environmental Protection Agency
Attn: Stacey Bennett, P.E. (6E-SH)
Work Assignment Manager
1445 Ross Avenue, Suite 1000
Dallas, Texas 75202

CONTRACT NO. 68-W9-0013
TECHNICAL MEMORANDUM / PA-SCORE
VAN WATERS AND ROGERS
EPA ID NO. TXD042291591
FARMERS BRANCH, DALLAS COUNTY, TEXAS
SITE INSPECTION PRIORITIZATION
WORK ASSIGNMENT NO. 33-6JZZ

Dear Ms. Bennett:

Attached is the Technical Memorandum and supporting documentation for the above-referenced site. We have also attached a 3.5" disk with an electronic copy of the Technical Memorandum and PA-Score. With your approval, this submittal constitutes completion of our work for this site.

Should you have questions or require additional information, please contact either of the undersigned at (214) 450-4100.

Sincerely,

Mengistu Lemma
ARCS Technical Manager

Robert K. Franke
ARCS Deputy Program Manager

ML:RF:kp

Attachments

~~pc: Lonnie Ross (6H-MA) EPA Region 6 (w/o attch.)~~ No

Introduction

Fluor Daniel, Inc. was tasked by the U.S. Environmental Protection Agency (EPA) to conduct the Site Inspection Prioritization (SIP) for the Van Waters and Rogers site, Farmers Branch, Dallas County, Texas (EPA ID No. TXD042291591). After reviewing the file provided by EPA and the PA-Score for the site completed by Fluor Daniel, the EPA Site Assessment Manager and the Fluor Daniel Project Manager concluded that a technical memorandum would be sufficient to complete the SIP assignment.

Background Information

The Van Waters and Rogers (VW&R) site is located at 4707 Alpha Road in Farmers Branch, Dallas County, Texas. Geographic coordinates of the site are 32°56'00" North latitude and 96°49'45" West longitude. The site location is shown on Figure 1. The 13.33 acre site is located in the northeast quadrant of the intersection of Alpha and Welch Roads. The site was identified on September 24, 1979 through an application for Texas Department of Water Resources (TDWR) registration under RCRA. Three site inspections were conducted. Two were conducted by the TDWR on September 30, 1980 and in December 1983. The purpose of the September visit was inspection of the facilities and records. A RCRA compliance inspection was conducted during the December visit. The two inspections reported the site to be in compliance. A third site inspection was conducted by Engineering Science Inc. on January 4, 1984.

The VW&R site was in operation from 1968 until the spring of 1986. The facility was utilized for the packaging and distribution of various chemical products. The facility consisted of above-ground product storage tanks contained on two concrete-diked structures, a tank truck loading dock, a railcar loading/unloading dock, a warehouse, an adjacent yard accommodating packaging, storage and shipping activities, and business offices. In January 1987, after the facility had ceased operations, the above-ground storage tanks were dismantled. While the tanks were being dismantled, strong chemical odors were recognized, prompting investigation by local and state regulatory agencies. On February 13, 1987, representatives of the Texas Water Commission (TWC) and a VW&R consultant, Glenn G. Draper Engineering, performed a site visit and sampling effort at the VW&R site. It was discovered that various organic chemical compounds were present in samples of the clay fill material and ponded water under the concrete-diked containment structures. In response to requests by the TWC, VW&R initiated site investigation studies and developed a comprehensive remedial action plan. The remedial action plan was prepared by Glenn G. Draper Engineering on March 26, 1987. Ecova Corporation initiated the field investigative study, outlined by Glenn G. Draper Engineering, in April 1987. Harding Lawson Associates (HLA) was retained by VW&R in late October 1987 to continue site investigation studies. VW&R obtained a discharge permit in the spring of 1990 to discharge the treated ground water into the Farmers Branch POTW. VW&R also completed a study on August 28, 1991 on the long term air impacts from the air stripper, which is part of the ground water treatment system.

In conjunction with the site characterization and plume stabilization studies, HLA performed a site visit and drilling effort at the VW&R site in April 1988. The objective of the drilling effort was to characterize the site and supplement information accumulated from previous studies. HLA drilled 25 borings in April and three additional borings in May 1988.

Representative sediment samples from nine borings were analyzed for volatile and semi-volatile organic compounds and metals.

Waste Source Characteristics

The source of contamination is in the northeast portion of the site, underlying the concrete containment structures where the above-ground product storage tanks were located. Migration from the source was confirmed based on analytical data from the boring logs and ground water samples from site investigations. The contamination is isolated in a subsurface depression. This depression was a drainage channel that was filled in when the site was originally developed. The area of contamination is estimated to be 3.5 acres. To prevent any further migration from the site, a slurry trench was installed in July 1988. A slurry trench provides for the on-site retention (stabilization) of the organic chemical compounds present in the subsurface.

Some of the chemical compounds detected in the sediment and ground water samples were: acetone, ethylbenzene, methylene chloride, tetrachloroethene, trichloroethene, dichlorobenzene, phenol, chloroform, arsenic, chromium, lead, and mercury.

Ground Water Migration Pathway

There are no domestic drinking water wells within 4 miles of the site. A recovery well is setup outside the slurry wall. The ground water treatment system, which has been in operation since 1991, utilizes a pump and treat system and a vapor extraction system. The threat to the ground water pathway would be unlikely due to the lack of drinking water wells and the presence of a remediation system at the site.

Surface Water Migration Pathway

The source of drinking water for Farmers Branch is Lake Lewisville, located 15 to 20 miles north of Farmers Branch. The stormwater runoff from the site enters the storm sewer at the northeast corner of the site. The stormwater runoff was sampled and analyzed for contaminants early in the remediation process. No contaminants were detected. The storm sewer outfall discharges into the Elm Fork of the Trinity River, 7 miles west of the site. The threat to the surface water pathway would be unlikely due to the lack of a surface body within 2 miles of the site and the presence of a remediation system onsite.

Soil Exposure Pathway

The site is completely enclosed by a chain link fence. Approximately 77% of the site is concrete and/or asphalt. The remaining 23% is uncontaminated, this portion of the site is where the office buildings were located. There are no residents or workers on the site. VW&R is currently in the process of signing a consent order to completely remediate the site with the Texas Natural Resources Conservation Commission (TNRCC). VW&R is planning on remediating the soil as part of the requirements within the consent order; however, the method of treatment has not been determined. No sensitive environments or federally listed species were identified on site. There were no schools or day-cares identified within 200 feet of the site. The population distribution within a 1 mile radius of the site is 9346 persons. The

threat to the soil exposure pathway would be minimal due to the lack of population in the area and the plans for remediation of the site.

Air Migration Pathway

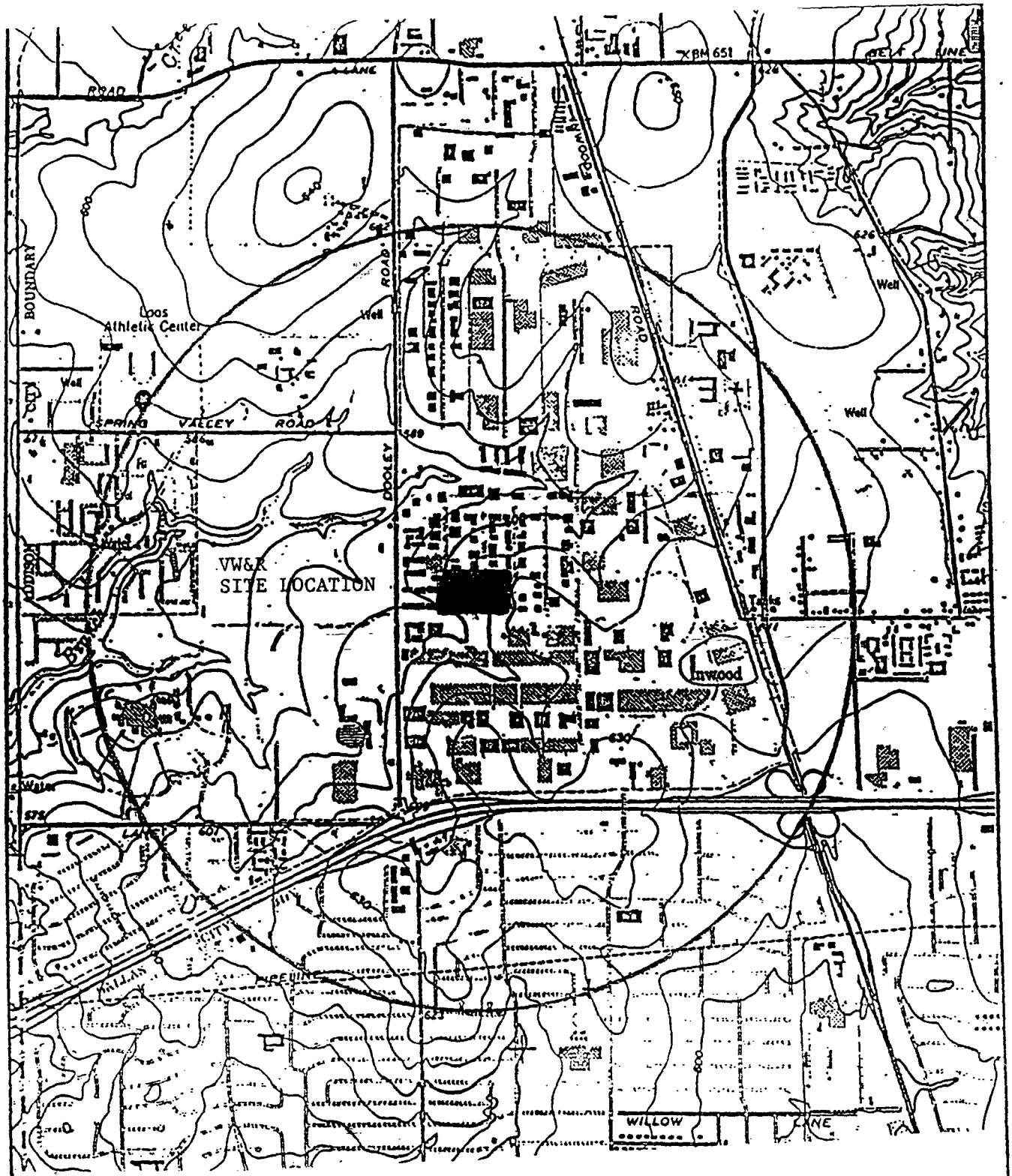
The site is situated in a light industrial, urban area. The only documented air release for this site is when VW&R was dismantling the above-ground product storage tanks in January 1987, strong chemical odors were recognized, prompting investigation by local and state regulatory agencies. An air pathway assessment was performed on the site on May 13, 1991. The purpose of the study was to determine the levels of emissions and potential health risks, if any, via the air pathway, to onsite workers and offsite persons from the air stripping tower used in removing the VOC's from the ground water. The conclusions of the study indicated that no adverse impacts via the air pathway of exposure are to be expected. The site is being overseen by the TNRCC and the City of Farmers Branch. No federally listed species or sensitive environments were identified within 4 miles of the site. The population within a 4-mile radius of the site is 169,991 persons.

Summary

Extensive studies have been performed at the site over the past eight years. VW&R is voluntarily remediating the site under the supervision of the TNRCC and the City of Farmers Branch. The State is issuing a consent order to VW&R that will monitor the remediation effort through completion. The threat to the ground water, surface water, soil exposure and air pathways would be unlikely due to the ongoing remediation process at the site.

FIGURE 1

SITE LOCATION MAP



CONTOUR INTERVAL 10 FEET

FLUOR DANIEL

FIGURE 1
SITE LOCATION MAP
VANWATER & ROGERS
FARMERS BRANCH, TEXAS
CERCLIS NO. TXD042291591

DIRECTORY: P:\ENVIRO\066 \ENV | FILE No. | REV.0

OMB Approval Number: 2050-0095
Approved for Use Through: 4/95

PA-Score

PA Scoresheets

Site Name: Van Waters and Rogers Company
CERCLIS ID No.: TXD042291591
Street Address: 4707 Alpha Rd., P.O. Box 34749
City/State/Zip: Dallas, TX 75234

Investigator: J. Douglas Cheek
Agency/Organization: Fluor Daniel Inc.
Street Address: 12790 Merit Dr. Ste. 200
City/State: Dallas , TX

Date: 8-30-94

OMB Approval Number: 2050-0095
Approved for Use Through: 4/95

POTENTIAL HAZARDOUS WASTE SITE PRELIMINARY ASSESSMENT FORM	IDENTIFICATION	
	State: TX	CERCLIS Number: TXD042291591
	CERCLIS Discovery Date: 9/24/79	

1. General Site Information

Name:	Street Address:				
Van Waters and Rogers Company	4707 Alpha Rd., P.O. Box 34749				
City:	**State:**	**Zip Code:**	**County:**	**Co. Code:**	**Cong. Dist:**
Dallas	TX	75234	Dallas		
Latitude:	**Longitude:**	**Approx. Area of Site:**	**Status of Site:**		
32° 56' 0.0"	96° 49' 45.0"	11 acres	Active		

2. Owner/Operator Information

Owner:	Operator:				
Van Waters & Rogers, Div of Univor					
Street Address:	**Street Address:**				
4707 Alpha Rd., P.O. Box 34749					
City:	**City:**				
Dallas					
State:	**Zip Code:**	**Telephone:**	**State:**	**Zip Code:**	**Telephone:**
TX	75234	(214)234-9111			
Type of Ownership:	**How Initially Identified:**				
Private	State/Local Program				

POTENTIAL HAZARDOUS WASTE SITE PRELIMINARY ASSESSMENT FORM	IDENTIFICATION	
	State: TX	CERCLIS Number: TXD042291591
	CERCLIS Discovery Date: 9/24/79	

3. Site Evaluator Information

Name of Evaluator:	Agency/Organization:	Date Prepared:
J. Douglas Cheek	Fluor Daniel Inc.	8-30-94

Street Address:	City:	State:
12790 Merit Dr. Ste. 200	Dallas	TX

Name of EPA or State Agency Contact:	Telephone:
Stacey Bennett	(214)665-8473

Street Address:	City:	State:
1445 Ross Avenue Ste.1000	Dallas	TX

4. Site Disposition (for EPA use only)

Emergency Response/Removal Assessment Recommendation: No	CERCLIS Recommendation: Other	Signature:
Date:	Date:	Name:
		Position:

POTENTIAL HAZARDOUS WASTE SITE PRELIMINARY ASSESSMENT FORM	IDENTIFICATION	
	State: TX	CERCLIS Number: TXD042291591
	CERCLIS Discovery Date: 9/24/79	

5. General Site Characteristics

Predominant Land Uses Within 1 Mile of Site:	Site Setting:	Years of Operation:
Industrial Commercial	Suburban	Beginning Year: 1969 Ending Year: 1984 X Unknown

Type of Site Operations:	Waste Generated:
Recycling RCRA Treatment, Storage, or Disposal	Onsite and Offsite
	Waste Deposition Authorized By: Present Owner
	Waste Accessible to the Public: No
	Distance to Nearest Dwelling, School, or Workplace: 0 Feet

6. Waste Characteristics Information

Source Type	Quantity	Tier
Drums	7.00e+00 drums	V
Other	2.00e+00 cu yds	V

Tier Legend
C = Constituent W = Wastestream
V = Volume A = Area

General Types of Waste:
Organics
Inorganics
Solvents

Physical State of Waste as Deposited
Solid
Liquid
Sludge

POTENTIAL HAZARDOUS WASTE SITE PRELIMINARY ASSESSMENT FORM	IDENTIFICATION	
	State: TX	CERCLIS Number: TXD042291591
	CERCLIS Discovery Date: 9/24/79	

7. Ground Water Pathway

Is Ground Water Used for Drinking Water Within 4 Miles: No	Is There a Suspected Release to Ground Water: No	List Secondary Target Population Served by Ground Water Withdrawn From:
Type of Ground Water Wells Within 4 Miles:	Have Primary Target Drinking Water Wells Been Identified: No	0 - 1/4 Mile 0 >1/4 - 1/2 Mile 0 >1/2 - 1 Mile 0
Depth to Shallowest Aquifer: 0 Feet		>1 - 2 Miles 0 >2 - 3 Miles 0
Karst Terrain/Aquifer Present: No	Nearest Designated Wellhead Protection Area: None within 4 Miles	>3 - 4 Miles 0 Total 0

POTENTIAL HAZARDOUS WASTE SITE PRELIMINARY ASSESSMENT FORM	IDENTIFICATION State: TX CERCLIS Number: TXD042291591 CERCLIS Discovery Date: 9/24/79

8. Surface Water Pathway — Part 1 of 4

Type of Surface Water Draining Site and 15 Miles Downstream:	Shortest Overland Distance From Any Source to Surface Water: 0 Feet 0.0 Miles
Is there a Suspected Release to Surface Water: No	Site is Located in: Annual - 10 yr floodplain

8. Surface Water Pathway — Part 2 of 4

Drinking Water Intakes Along the Surface Water Migration Path: No

Have Primary Target Drinking Water Intakes Been Identified: No

Secondary Target Drinking Water Intakes:
None

POTENTIAL HAZARDOUS WASTE SITE PRELIMINARY ASSESSMENT FORM	IDENTIFICATION	
	State: TX	CERCLIS Number: TXD042291591
	CERCLIS Discovery Date: 9/24/79	

8. Surface Water Pathway — Part 3 of 4

Fisheries Located Along the Surface Water Migration Path: No

Have Primary Target Fisheries Been Identified: No

Secondary Target Fisheries:
None

8. Surface Water Pathway — Part 4 of 4

Wetlands Located Along the Surface Water Migration Path? (y/n) No

Have Primary Target Wetlands Been Identified? (y/n) No

Secondary Target Wetlands:
None

Other Sensitive Environments Along the Surface Water Migration Path: No

Have Primary Target Sensitive Environments Been Identified: No

Secondary Target Sensitive Environments:
None

POTENTIAL HAZARDOUS WASTE SITE PRELIMINARY ASSESSMENT FORM	IDENTIFICATION	
	State: TX	CERCLIS Number: TXD042291591
	CERCLIS Discovery Date: 9/24/79	

9. Soil Exposure Pathway

Are People Occupying Residences or Attending School or Daycare on or Within 200 Feet of Areas of Known or Suspected Contamination: No	Number of Workers Onsite: None

Have Terrestrial Sensitive Environments Been Identified on or Within 200 Feet of Areas of Known or Suspected Contamination: No

10. Air Pathway

Total Population on or Within:	
Onsite	0
0 - 1/4 Mile	0
>1/4 - 1/2 Mile	0
>1/2 - 1 Mile	9346
>1 - 2 Miles	28854
>2 - 3 Miles	56213
>3 - 4 Miles	75518
Total	169931

Is There a Suspected Release to Air: No

Wetlands Located Within 4 Miles of the Site: No

Other Sensitive Environments Located Within 4 Miles of the Site: No

Sensitive Environments Within 1/2 Mile of the Site:
None

WASTE CHARACTERISTICS

Waste Characteristics (WC) Calculations:

1 sludge	Drums	Ref: 1	WQ value	maximum
Volume	7.00E+00 drums		7.00E-01	7.00E-01

Estimate of 7, 55 gal. drums of spent halogenated solvent sludge per month.
Ref: 1

2 solvents	Other	Ref: 1	WQ value	maximum
Volume	2.00E+00 cu yds		8.00E-01	8.00E-01

Estimated 36,000 kg/yr. generated from solvent recycling.
Ref: 1

WQ total 1.50E+00

** Only First WC Page Is Printed ** | Waste Characteristics Score: WC = 18

Ground Water Pathway Criteria List
Suspected Release

Are sources poorly contained? (y/n/u)	N
Is the source a type likely to contribute to ground water contamination (e.g., wet lagoon)? (y/n/u)	Y
Is waste quantity particularly large? (y/n/u)	N
Is precipitation heavy? (y/n/u)	N
Is the infiltration rate high? (y/n/u)	N
Is the site located in an area of karst terrain? (y/n)	N
Is the subsurface highly permeable or conductive? (y/n/u)	N
Is drinking water drawn from a shallow aquifer? (y/n/u)	N
Are suspected contaminants highly mobile in ground water? (y/n/u)	U
Does analytical or circumstantial evidence suggest ground water contamination? (y/n/u)	N
Other criteria? (y/n)	Y
SUSPECTED RELEASE? (y/n)	N

Summarize the rationale for Suspected Release:

A recovery well is set up outside a slurry wall at the site. A g round water treatment system has been in operation since 1991 utilizing a pump and treatsytem and a vapor extraction system .

Ref: 3,4

Ground Water Pathway Criteria List
Primary Targets

Is any drinking water well nearby? (y/n/u)

Has any nearby drinking water well been closed? (y/n/u)

Has any nearby drinking water well user reported foul-testing or foul-smelling water? (y/n/u)

Does any nearby well have a large drawdown/high production rate? (y/n/u)

Is any drinking water well located between the site and other wells that are suspected to be exposed to a hazardous substance? (y/n/u)

Does analytical or circumstantial evidence suggest contamination at a drinking water well? (y/n/u)

Does any drinking water well warrant sampling? (y/n/u)

Other criteria? (y/n)

PRIMARY TARGET(S) IDENTIFIED? (y/n)

Summarize the rationale for Primary Targets:

GROUND WATER PATHWAY SCORESHEETS

Pathway Characteristics		Ref.
Do you suspect a release? (y/n)	No	
Is the site located in karst terrain? (y/n)	No	
Depth to aquifer (feet):	0	
Distance to the nearest drinking water well (feet):	0	

LIKELIHOOD OF RELEASE	Suspected Release	No Suspected Release	References
1. SUSPECTED RELEASE	0		
2. NO SUSPECTED RELEASE		500	
LR =	0	500	

Targets

TARGETS	Suspected Release	No Suspected Release	References
3. PRIMARY TARGET POPULATION 0 person(s)	0		
4. SECONDARY TARGET POPULATION Are any wells part of a blended system? (y/n) N	0	0	
5. NEAREST WELL	0	0	
6. WELLHEAD PROTECTION AREA None within 4 Miles	0	0	
7. RESOURCES	0	5	
T =	0	5	

WASTE CHARACTERISTICS

WC =	0	18

GROUND WATER PATHWAY SCORE:	1

Ground Water Target Populations

Primary Target Population Drinking Water Well ID	Dist. (miles)	Population Served	Reference	Value
None				

*** Note : Maximum of 5 Wells Are Printed *** Total

Secondary Target Population Distance Categories	Population Served	Reference	Value
0 to 1/4 mile	0		0
Greater than 1/4 to 1/2 mile	0		0
Greater than 1/2 to 1 mile	0		0
Greater than 1 to 2 miles	0		0
Greater than 2 to 3 miles	0		0
Greater than 3 to 4 miles	0		0
		Total	0

Apportionment Documentation for a Blended System

Surface Water Pathway Criteria List Suspected Release	
Is surface water nearby? (y/n/u)	N
Is waste quantity particularly large? (y/n/u)	N
Is the drainage area large? (y/n/u)	N
Is rainfall heavy? (y/n/u)	N
Is the infiltration rate low? (y/n/u)	Y
Are sources poorly contained or prone to runoff or flooding? (y/n/u)	N
Is a runoff route well defined(e.g.ditch/channel to surf.water)? (y/n/u)	N
Is vegetation stressed along the probable runoff path? (y/n/u)	N
Are sediments or water unnaturally discolored? (y/n/u)	N
Is wildlife unnaturally absent? (y/n/u)	N
Has deposition of waste into surface water been observed? (y/n/u)	N
Is ground water discharge to surface water likely? (y/n/u)	N
Does analytical/circumstantial evidence suggest S.W. contam? (y/n/u)	N
Other criteria? (y/n)	N
SUSPECTED RELEASE? (y/n)	N

Summarize the rationale for Suspected Release:

Surface Water Pathway Criteria List
Primary Targets

Is any target nearby? (y/n/u) If yes: N
N Drinking water intake
N Fishery
N Sensitive environment

Has any intake, fishery, or recreational area been closed? (y/n/u) N

Does analytical or circumstantial evidence suggest surface water contamination at or downstream of a target? (y/n/u) N

Does any target warrant sampling? (y/n/u) If yes: N
N Drinking water intake
N Fishery
N Sensitive environment

Other criteria? (y/n) N

PRIMARY INTAKE(S) IDENTIFIED? (y/n) N

Summarize the rationale for Primary Intakes:

continued -------

continued -------

Other criteria? (y/n) N

PRIMARY FISHERY(IES) IDENTIFIED? (y/n) N

Summarize the rationale for Primary Fisheries:

Other criteria? (y/n) N

PRIMARY SENSITIVE ENVIRONMENT(S) IDENTIFIED? (y/n) N

Summarize the rationale for Primary Sensitive Environments:

SURFACE WATER PATHWAY SCORESHEETS

Pathway Characteristics ↓		Ref.
Do you suspect a release? (y/n)	No	
Distance to surface water (feet):	0	
Flood frequency (years):	1-10	
What is the downstream distance (miles) to:		
a. the nearest drinking water intake?	0.0	
b. the nearest fishery?	0.0	
c. the nearest sensitive environment?	0.0	

LIKELIHOOD OF RELEASE	Suspected Release	No Suspected Release	References
1. SUSPECTED RELEASE	0		
2. NO SUSPECTED RELEASE		500	
LR =	0	500	

Drinking Water Threat Targets

TARGETS	Suspected Release	No Suspected Release	References
3. Determine the water body type, flow (if applicable), and number of people served by each drinking water intake.			
4. PRIMARY TARGET POPULATION 0 person(s)	0		
5. SECONDARY TARGET POPULATION Are any intakes part of a blended system? (y/n): N	0	0	
6. NEAREST INTAKE	0	0	
7. RESOURCES	0	5	
T =	0	5	

Drinking Water Threat Target Populations

Intake Name	Primary (y/n)	Water Body Type/Flow	Population Served	Ref.	Value
None					

Total Primary Target Population Value	0
Total Secondary Target Population Value	0

*** Note : Maximum of 6 Intakes Are Printed ***

Apportionment Documentation for a Blended System

Human Food Chain Threat Targets

TARGETS	Suspected Release	No Suspected Release	References
8. Determine the water body type and flow for each fishery within the target limit.			
9. PRIMARY FISHERIES	0		
10. SECONDARY FISHERIES	0	0	
T =	0	0	

Human Food Chain Threat Targets

Fishery Name	Primary (y/n)	Water Body Type/Flow	Ref.	Value
None				

Total Primary Fisheries Value	0
Total Secondary Fisheries Value	0

*** Note : Maximum of 6 Fisheries Are Printed ***

Environmental Threat Targets

TARGETS	Suspected Release	No Suspected Release	References
11. Determine the water body type and flow (if applicable) for each sensitive environment.			
12. PRIMARY SENSITIVE ENVIRONMENTS	0		
13. SECONDARY SENSITIVE ENVIRONS.	0	0	
T =	0	0	

Environmental Threat Targets

Sensitive Environment Name	Primary (y/n)	Water Body Type/Flow	Ref.	Value
None				

Total Primary Sensitive Environments Value 0
Total Secondary Sensitive Environments Value 0

*** Note: Maximum of 6 Sensitive Environments Are Printed ***

Surface Water Pathway Threat Scores

Threat	Likelihood of Release (LR) Score	Targets (T) Score	Pathway Waste Characteristics (WC) Score	Threat Score LR x T x WC / 82,500
Drinking Water	500	5	18	1
Human Food Chain	500	0	18	0
Environmental	500	0	18	0

SURFACE WATER PATHWAY SCORE:	1

Soil Exposure Pathway Criteria List
Resident Population

Is any residence, school, or daycare facility on or within 200 feet of an area of suspected contamination? (y/n/u)	N
Is any residence, school, or daycare facility located on adjacent land previously owned or leased by the site owner/operator? (y/n/u)	N
Is there a migration route that might spread hazardous substances near residences, schools, or daycare facilities? (y/n/u)	N
Have onsite or adjacent residents or students reported adverse health effects, exclusive of apparent drinking water or air contamination problems? (y/n/u)	N
Does any neighboring property warrant sampling? (y/n/u)	N
Other criteria? (y/n)	N
RESIDENT POPULATION IDENTIFIED? (y/n)	N

Summarize the rationale for Resident Population:

SOIL EXPOSURE PATHWAY SCORESHEETS

Pathway Characteristics		Ref.
Do any people live on or within 200 ft of areas of suspected contamination? (y/n)	No	
Do any people attend school or daycare on or within 200 ft of areas of suspected contamination? (y/n)	No	
Is the facility active? (y/n):	No	1

LIKELIHOOD OF EXPOSURE	Suspected Contamination	References
1. SUSPECTED CONTAMINATION LE =	550	

Targets

2. RESIDENT POPULATION 0 resident(s) 0 school/daycare student(s)	0	
3. RESIDENT INDIVIDUAL	0	
4. WORKERS None	0	
5. TERRES. SENSITIVE ENVIRONMENTS	0	
6. RESOURCES	0	
T =	0	

WASTE CHARACTERISTICS

WC = 18

RESIDENT POPULATION THREAT SCORE: 1

NEARBY POPULATION THREAT SCORE: 1

Population Within 1 Mile: 1 - 10,000

SOIL EXPOSURE PATHWAY SCORE: 2

Soil Exposure Pathway Terrestrial Sensitive Environments

Terrestrial Sensitive Environment Name	Reference	Value
None		
Total Terrestrial Sensitive Environments Value		

*** Note : Maximum of 7 Sensitive Environments Are Printed ***

Air Pathway Criteria List
Suspected Release

Are odors currently reported? (y/n/u)	N
Has release of a hazardous substance to the air been directly observed? (y/n/u)	N
Are there reports of adverse health effects (e.g., headaches, nausea, dizziness) potentially resulting from migration of hazardous substances through the air? (y/n/u)	N
Does analytical/circumstantial evidence suggest release to air? (y/n/u)	N
Other criteria? (y/n)	N
SUSPECTED RELEASE? (y/n)	N

Summarize the rationale for Suspected Release:

AIR PATHWAY SCORESHEETS

Pathway Characteristics		Ref.
Do you suspect a release? (y/n)	No	
Distance to the nearest individual (feet):	0	

LIKELIHOOD OF RELEASE	Suspected Release	No Suspected Release	References
1. SUSPECTED RELEASE	0		
2. NO SUSPECTED RELEASE		500	
LR =	0	500	

Targets

TARGETS	Suspected Release	No Suspected Release	References
3. PRIMARY TARGET POPULATION 0 person(s)	0		
4. SECONDARY TARGET POPULATION	0	35	
5. NEAREST INDIVIDUAL	0	1	
6. PRIMARY SENSITIVE ENVIRONS.	0		
7. SECONDARY SENSITIVE ENVIRONS.	0	0	
8. RESOURCES	0	5	
T =	0	41	

WASTE CHARACTERISTICS		
WC =	0	18

AIR PATHWAY SCORE:	4

Air Pathway Secondary Target Populations

Distance Categories	Population	References	Value
Onsite	0		0
Greater than 0 to 1/4 mile	0		0
Greater than 1/4 to 1/2 mile	0		0
Greater than 1/2 to 1 mile	9346	5	8
Greater than 1 to 2 miles	28854	5	8
Greater than 2 to 3 miles	56213	5	12
Greater than 3 to 4 miles	75518	5	7
	Total Secondary Population Value		35

Air Pathway Primary Sensitive Environments

Sensitive Environment Name	Reference	Value
None		
Total Primary Sensitive Environments Value		

*** Note : Maximum of 7 Sensitive Environments Are Printed***

Air Pathway Secondary Sensitive Environments

Sensitive Environment Name	Distance	Reference	Value
None			
Total Secondary Sensitive Environments Value			

SITE SCORE CALCULATION	SCORE
GROUND WATER PATHWAY SCORE:	1
SURFACE WATER PATHWAY SCORE:	1
SOIL EXPOSURE PATHWAY SCORE:	2
AIR PATHWAY SCORE:	4
SITE SCORE:	2

SUMMARY

1. Is there a high possibility of a threat to any nearby drinking water well(s) by migration of a hazardous substance in ground water? No

   If yes, identify the well(s).

   If yes, how many people are served by the threatened well(s)? 0

2. Is there a high possibility of a threat to any of the following by hazardous substance migration in surface water?
   - A. Drinking water intake — No
   - B. Fishery — No
   - C. Sensitive environment (wetland, critical habitat, others) — No

   If yes, identity the target(s).

3. Is there a high possibility of an area of surficial contamination within 200 feet of any residence, school, or daycare facility? No

   If yes, identify the properties and estimate the associated population(s)

4. Are there public health concerns at this site that are not addressed by PA scoring considerations? No

   If yes, explain:

REFERENCE LIST

1. US EPA Potential Hazardous Waste Site, Identification and Preliminary Assessment 1/17/84

2. Joan A. Lawson & Jack S. Haston P.E., Harding Lawson Associates. "Site Characterization Report VW&R Dallas Alpha Road Facility Farmers Branch, Texas April 1989.

3. ROC:From M. Sapyta. To Wayne Grotheer, Director of Environmental Affairs, Univor Van Waters and Rogers. August 23, 1994.
RE: General site information

4. ROC: From M.Sapyta To John Clelden, Environmental Engineer, Farmers Branch Water District. August 22, 1994.
RE: General site information

5. U.S. Environmental Protection Agency, Graphical Exposure Modeling System (GEMS) database, compiled from U.S. Census Bureau 1990 data, Accessed August 8, 1994.